ABSTRACT

A free space tunable filter produces a passband output as a result of sequential processing by an array of narrowband tunable filters (NBTFs) each tuned to a slightly different The present invention is comprised of one or frequency. having multiple interleaved sectors more comprising an array of NBTFs having a masked outer surface reflective coating. Stages cascading is used to increase figure of merit and single stages device partitioned into multiple sectors that process a specific interleaved region of the bandwidth. Final stage output group passband signals are combined in a multiplexer and tapped with a partially transparent photodetector.